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## THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A method of promoting growth comprising the step of administering an effective amount of a compound of

5 formula I:

$$R_{5}$$
 $R_{7}$ 
 $R_{7}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{1}$ 
 $R_{1}$ 

I

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in which

X and Y are either the same or different and selected from a heteroatom;

is a double or single bond depending on the heteroatoms X and Y;

 $$R_1$$  to  $$R_5$$  are either the same or different and selected from hydrogen or a non-deleterious substituent; and

 $R_6$  and  $R_7$  are either the same or different and selected from hydrogen and a non-deleterious substituent or one of  $R_6$  and  $R_7$  are absent when there is a double bond present,

pharmaceutically or veterinarily acceptable
25 salts or derivatives, pro-drugs, tautomers and/or isomers
thereof to a subject in need thereof.

- 2. A method according to claim 1, in which the subject is an animal or a human.
- 3. A method according to claim 2, in which the animal is an intensively farmed animal.
- 4. A method according to claim 3, in which the intensively farmed animal is a mammal, bird or fish.
  - 5. A method according to claim 4, in which the

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mammal is a pig, cow or sheep and the bird is a chicken or turkey.

- 6. A method according to any one of claims 1 to 5, in which X and Y are either the same or different and selected from 0 and N.
  - 7. A method according to claim 6, in which X and Y are both O.
- 8. A method according to any one of claims 1 to 7, in which  $R_1$  and  $R_2$  are either the same or different and selected from hydrogen, hydroxy, halogen and optionally substituted  $C_{1-6}$  alkyl.
- 9. A method according to any one of claims 1 to 8, in which  $R_3$  to  $R_5$  are either the same or different and selected from hydrogen, hydroxy, halogen, nitro,  $C_{1-6}$  alkoxy and optionally substituted  $C_{1-6}$  alkyl.
- 10. A method according to claim 8 or claim 9, in which the halogen is chlorine or bromine.
- 11. A method according to any one of claims 1 to 10, 25 in which the compound of the formula I is in the form of an E isomer.
- 12. A method according to any one of claims 1 to 11, in which X, Y, \$\frac{\frac{1}{8}}{8}\$, R<sub>6</sub> and R<sub>7</sub> are as defined in claim 1; R<sub>1</sub>

  30 and R<sub>2</sub> are either the same or different and selected from hydrogen, hydroxy, Cl, Br and C<sub>1-4</sub> alkyl; and R<sub>3</sub> to R<sub>5</sub> are either the same or different and selected from hydrogen, hydroxy, Cl, Br, nitro, C<sub>1-4</sub> alkoxy and C<sub>1-4</sub> alkyl.
- 35 13. A method according to any one of claims 1 to 12, in which X and Y are 0,  $R_1$  is methyl and  $R_2$  to  $R_7$  are hydrogen (3,4-methylenedioxy- $\beta$ -methyl- $\beta$ -nitrostyrene)

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X and Y are O and  $R_1$  to  $R_7$  are hydrogen (3,4-methylenedioxy- $\beta$ -nitrostyrene)

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;

X is N, Y is NH,  $R_1$  is methyl,  $R_2$  to  $R_6$  are hydrogen and  $R_7$  is absent (benzimidazole-5- $\beta$ -nitropropylene)

$$N$$
 $CH_3$ 

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X is N, Y is NH,  $R_1$  is to  $R_5$  are hydrogen,  $R_6$  is methyl and  $R_7$  is absent (2-methyl benzimidazole-5- $\beta$ -nitroethylene)

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30 X is O, Y is N,  $R_1$  to  $R_6$  are hydrogen and  $R_7$  is absent (benzoxazole-5- $\beta$ -nitroethylene)

$$NO_2$$
 ; or

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MI 30 Marie X is N, Y is O,  $R_1$  is methyl,  $R_2$  to  $R_5$  are hydrogen,  $R_6$  is methyl and  $R_7$  is absent (2-methyl benzoxazole-5- $\beta$ nitropropylene)

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Use of the compound of formula I as defined in 10 any one of claims 1 to 13 in promoting growth of a subject.

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- 15. Use of the compound of formula I as defined in any one of claims 1 to 13 in the manufacture of a 15 medicament or feed for promoting growth of a subject.
  - 16. A compound of formula I as defined in any one of claims 1 to 13 for use in promoting growth of a subject.
- 20 17. A composition for promoting growth in a subject, which comprises the compound of formula I as defined in any one of claims 1 to 13 and a carrier.
- 18. A pharmaceutical or veterinary composition 25 comprising the compound of formula I as defined in any one of claims 1 to 13 and a pharmaceutically or veterinarily acceptable carrier.
- 19. A composition according to claim 18 which is a 30 topical, oral or parenteral composition.
  - 20. A composition according to claim 18 or claim 19 in which the pharmaceutically or veterinarily acceptable carrier is an organic solvent.
  - 21. A composition according to claim 20 in which the organic solvent is acetone, benzene, acetonitrile, DMSO or

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an alcohol.

- 22. A feed for promoting growth in a subject comprising the compound of formula I as defined in any one of claims 1 to 13.
- A feed according to claim 22 which further comprises a carrier selected from alfalfa meal, soybean meal, cottonseed oil meal, linseed oil meal, sodium
   chloride, corn meal, cane molasses, urea, bone meal, fish meal, corncob meal, calcium chloride and vegetable or plant oil.
- 24. A growth promoting agent or nutritional15 supplement comprising the compound of formula I as defined in any one of claims 1 to 13.
- 25. Use of the compound of formula I as defined in any one of claims 1 to 13 as a growth promoting agent or nutritional supplement.